CLARION COMMERCIAL CAMERA SYSTEMS

jca
fleet services

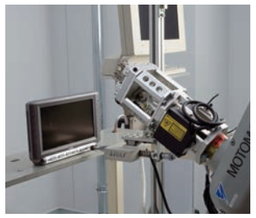
CLARION CAMERA SYSTEMS

CLARION: BUILT TO LAST

JCA Fleet Services is the only Western Australian distributor for Clarion commercial camera systems. Clarion commercial cameras are one of the only camera systems durable enough to withstand the harsh weather conditions encountered at various work sites within Australia.

Their state-of-the-art computer design system simulates various climatic conditions and every product goes through a wide range of quality control tests. Only when products pass these tests, are they entitled to bear the Clarion insignia and be delivered to customers around the world.

- **Water Resistance** - Clarion's dual chamber design and precision o-ring seals prevent water penetration regardless of what Mother Nature can throw at it. They check for water penetration inside the camera to ensure watertight integrity.
- **Operational Shock Resistance -** Built to last! Clarion cameras are designed to withstand up to a 10G (G-Force) shock.



- **Thermal Shock Resistance -** Cycled from -40°C to +85°C, Clarion cameras are put through the gauntlet. This test is intended to expose any problems with solder joints, the PC board, and the aluminium housing.
- **Repetition Durability Test -** Clarion examines the durability of movable parts, such as the shutter opening/closing and monitor controls by conducting more than 50,000 operational tests.

Whether the camera system is used in a rubbish truck, bus, truck, forklift, agricultural, construction, or maritime machinery, it's built to exceed your requirements.

HEAVY DUTY COLOUR CCD CAMERAS

Conceived for safety and reliability, Clarion's heavy-duty CCD cameras utilize state-of-the-art technology and deliver high performance even under tough conditions.

Low-distortion lens
The distortion typical of wide-angle lenses has been corrected with this ultra-wide-angle lens to provide a wider and more natural looking view.

Low-light visibility
Clarion colour cameras deliver even brighter, clearer images than black and white cameras, enabling reliable rear-view monitoring in low light situations.

CLARION CCD CAMERAS

HEAVY DUTY COLOUR CCD CAMERAS

CC2001F

Heavy Duty Color CCD Camera with Shutter
(Mirror Image/Wide Angle)

- A dual chamber design provides two moisture barriers for ultimate protection
- 1.4 times Digital Zoom with CJ981E
- Corrosion Resistant for long-term durability
- Backlight Compensation Circuit for enhanced on-screen view
- Electronic Iris
- Sturdy aluminum die-cast housing ensures the durability of the camera body
- Clarion's heavy duty CCD cameras deliver high quality images with superior design and construction
- The motorized shutter keeps dirt, water, snow, and dust off the lens when the camera is not in use

Model No.	Number of Pixels	View Angle (horiz./vert.)	CCD Size	Operating Temperature Range	Vibration Rating (G-force)	Size (W × H × D mm)	Weight	Waterproof Capability	Accessory
CC2001F	250,000	118/97	1/4"	-30°C to + 70°C	10G	80 × 40.5 × 57.4	Approx. 300g	JIS D0203 S2*	Stainless Steel Mounting Cover & Bracket
CC2000E/ CC2003E	250,000	118/97	1/4"	-30°C to + 70°C	10G	80 × 40.5 × 53	Approx. 260g	JIS D0203 S2*	Stainless Steel Mounting Cover & Bracket
CC2002E	250,000	40/30	1/4"	-30°C to + 70°C	10G	80 × 40.5 × 53	Approx. 260g	JIS D0203 S2*	Stainless Steel Mounting Cover & Bracket

*JIS D0203 S2 : Water-resistance and humidity-resistance testing of automotive components as specified in the Japan Industry Standards. S2 means resistance to strong water pressure.

CC2000E

Heavy Duty Color CCD Camera
(Mirror Image/Wide Angle)

CC2003E

Heavy Duty Color CCD Camera
(True Image/Wide Angle)

CC2002E

Heavy Duty Color CCD Camera
(True Image/Narrow Angle)

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CLARION CCD CAMERAS

IR ILLUMINATED COLOUR CCD CAMERA

Designed to meet a wide range of conditions with infrared illuminators, microphone, pre-heater, and more.

CC3000E

IR Illuminated Colour CCD Camera
(Mirror Image/Wide Angle)

- The built-in six infrared illuminators and 1/3” CCD image sensor make backing up at night or in a dark garage especially convenient
- Built-in microphone so you can hear, not just see, what’s going on behind your vehicle
- Built-in heating element ensures the camera is always ready for use
- Weather resistant die-cast aluminum housing
- Electronic Iris
- Can also be connected to a general-purpose monitor with a composite (RCA) input terminal via the dedicated conversion cable (CCA-730-500) (12V vehicles only)

Model No.	Number of Pixels	View Angle (horiz./vert.)	CCD Size	Low Light Rating (lux)	Operating Temperature Range	Vibration Rating (G-force)	Size (W × H × D mm)	Weight	Waterproof Capability	Accessory
C3000E	250,000	118/97	1/3"	0.01 (LED ON)	-10°C to + 60°C	6.8G	70 × 44 × 57	Approx. 238g	IP67	Stainless Steel Mounting Cover & Bracket
CC2020E	250,000	120/90	1/4"	0.01 (LED ON)	-30°C to +70°C	6.8G	64.6 × 48.2 × 55.8	Approx. 180g	IP68	Stainless Steel Cover & Bracket

Note: Microphone function of CC2020E/CC3000E is available only in combination with the CJ7100E, CJ7300G and CJ7500E.

CC2020E

Ultra Wide Angle Compact Color CCD Camera
(Mirror Image/Ultra Wide Angle)

- Dynamic Range Function improves the camera image clarity in both light and dark situations
- Five built-in infrared emitters
- Built-in microphone
- Built-in heating element ensures the camera is ready for use at all times
- Weather resistant die-cast aluminum housing
- Electronic Iris
- Can also be connected to a universal monitor with a composite (RCA) input terminal via the dedicated conversion cable (CCA730) (12V vehicles only)

CLARION CCD & CMOS CAMERAS

CCD AND CMOS CAMERAS

Compact, lightweight models that can be easily mounted and installed.

CC4100E

Ultra Compact Color CMOS Camera

- Excellent 130° wide angle view minimizes blind spots
- 307,200 pixel high quality image
- Electronic Iris
- Designed to withstand severe vibrations
- Compact and lightweight design for easy installation
- Heavy duty bracket

Model No.	Number of Pixels	View Angle (horiz./vert.)	CMOS Size	Operating Temperature Range	Vibration Rating (G-force)	Size (W × H × D mm)	Weight	Waterproof Capability	Accessory
CC4100E	307,200	130/99	1/4"	-30°C to + 70°C	6.8G	23.4 × 23.4 × 22	Approx. 80g	JIS D0203 S2*	Stainless Steel Cover and Bracket
CC4001U	307,200	130/99	1/4"	-30°C to + 70°C	3G	23.4 × 23.4 × 22	Approx. 130g	JIS D0203 S2*	Stainless Steel Mounting Bracket
CC2012E	250,000	130/97	1/4"	-30°C to + 70°C	6.8G	27 × 25 × 28.3	Approx. 72g	JIS D0203 S2*	Stainless Steel Mounting Bracket

*JIS D0203 S2 : Water-resistance and humidity-resistance testing of automotive components as specified in the Japan Industry Standards. S2 means resistance to strong water pressure.

CC4001U

Ultra Compact Color CMOS Camera
(for 12V vehicles only)

- Video RCA output for use with any monitor with RCA video input
- Compact and lightweight design for easy installation
- 130° wide angle view
- 307,200 pixel picture image
- Electronic Iris

CC2012E

Ultra Compact Color CCD Camera

- Compact and lightweight design for easy installation
- Electronic Iris

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CLARION CAMERA SYSTEMS

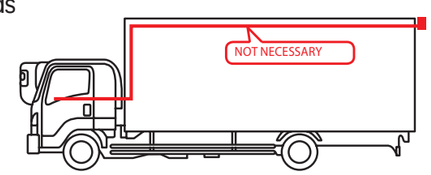
DIGITAL WIRELESS CAMERA SYSTEMS

Clarion now offers both WLAN and FH (Frequency Hopping) wireless camera systems so you can choose the one that best fits your requirements.

Advantages of Clarion Wireless Camera Systems

1. Reduces costs of video cables and cable installation
2. Easier Camera System integration when regularly switching trailers (WLAN)
3. Heavy duty design, built to meet rigorous commercial vehicle standards
4. Short video signal delay (WLAN 100msec, FH 200msec at best effort)

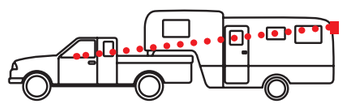
No video cable required.



CC3500E/EE2178E

- Minimized video signal transmission delay
- Easy pairing operation

Pairing function supports camera exchange when switching trailers (WLAN).



EE2179E

- Longer transmission distance than WLAN gives wider vehicle applicability
- Less susceptible to external signal interference

WLAN 2.4GHz DIGITAL WIRELESS CAMERA AND RECEIVER SYSTEM

Digitally transmitted images over WLAN provide safety and convenience while driving.

CC3500E

Digital WLAN Camera with Transmitter

- Reduces the installation costs of connecting cables
- Transmitter is built into the camera
- Very short signal delay: Approximately 100 milliseconds at best effort
- Allows for connecting with existing monitor with composite video input
- Easy pairing operation: Just press pairing button and select the camera to be paired on monitor

Model No.	Power Supply	Power Consumption	CMOS Size	Low Light Rating (LUX)	Camera View Angle (horiz/ vert)	Wireless Standard	Transmission/ Reception Frequency	Video Output	Operating Temperature Range	Vibration Resistance	Size (W×H×D mm)	Waterproof Capability	Included Accessories
CC3500E	DC 12V/24V	Less than 250mA (DC 12V)	1/3.6'	Less than 1.0	115/85	IEEE802.11b/g	2.4GHz band	-	-30°C to +70°C	6.8G	80 × 50 × 58.23	IP67	Antennas, mounting bracket
EE2178E			-	-	-			NTSC	-20°C to +70°C	4.4G	93 × 24.5 × 108	Non-watertight	Pairing switch, RCA cord, Power supply cord, Mounting bracket

CLARION CAMERA SYSTEMS

FH 2.4GHz DIGITAL WIRELESS CAMERA AND MONITOR SYSTEM

FH camera system for maximum security and minimal signal interruption.

EE2179E

Digital FH Wireless Camera and Monitor System

- Reduces the installation costs of connecting cables
- Modulation system: FH (Frequency Hopping) Spread Spectrum technology
- Transmitter is built into the camera
- Receiver is integrated into the 7” LCD monitor
- Pre-paired at manufacturer
- Short signal delay: Approximately 200 milliseconds at best effort

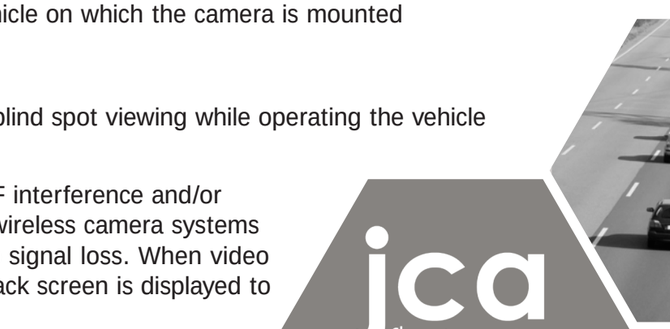
Model No. EE2179E	Power Supply	Power	Screen Size	Monitor View Angle (horiz/vert)	CMOS Size	Low Light Rating (LUX)	Camera View Angle (horiz/vert)	Modulation System	Transmission /Reception Frequency	Operating	Vibration	Size (W × H × D) mm	Waterproof Capability	Included Accessories
Camera with transmitter	DC 12V/24V	Less than 300mA (DC 12V)	-	-	1/3.6"	Less than 1.0	115/85	FHSS (Frequency Hopping Spread Spectrum)	2.4GHz band	-30°C to +70°C	6.8G	80 × 50 × 58.23	IP67	Antenna, mounting bracket
Monitor with receiver	DC 12V/24V	Less than 500mA (DC 12V)	7"	45 / 45	-	N/A	-			-20°C to +70°C	4.4G	174 × 113 × 40.5	Non-watertight	Antenna, mounting bracket

Note:

- Supply power to the camera from the vehicle on which the camera is mounted

Disclaimer

- These products are intended to improve blind spot viewing while operating the vehicle and promoting safe driving.
- When signal interruption occurs due to RF interference and/or environmental surroundings, the Clarion wireless camera systems may experience image jump and/or video signal loss. When video signal loss occurs, a caution screen or black screen is displayed to inform drivers of signal interruption.
- Mounting may not be possible depending on the condition of the vehicle.



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CLARION LCD COLOURS MONITORS

WIDESCREEN LCD COLOUR MONITORS

CJ7300G

7” Widescreen Quad Colour Monitor

(Compatible with both DC12V and 24V)

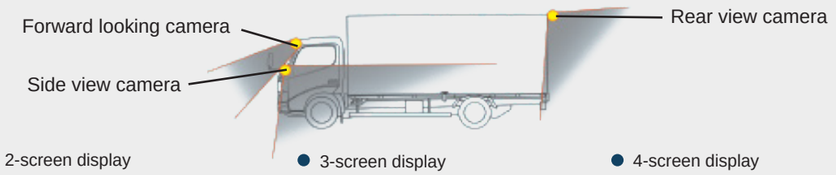
- Built-in power box allows direct connection of up to 4 cameras
- Digital LCD panel delivers a high-quality image
- Four display views available in various combinations
- LED back lighting
- Convenient true or mirror camera image switching function
- Touch-panel buttons and 8 language display selection
- Color, brightness, and contrast controls
- Auxiliary (RCA) video and mono audio input
- Automatic/manual dimmer function
- On-screen distance markers (camera 1 only)
- NTSC/PAL compatible
- On-dash mounting kit and wireless remote control included
- Built-in speaker (works in combination with the CC3000E’s microphone*)
- Automatic video switching with reverse gear and turn signal inputs

*Only CAMERA 1 input can be used with the CC3000E’s microphone function

Wireless remote control

On-dash mounting kit

Camera Coverage



● 2-screen display

● 3-screen display

● 4-screen display

*Navigation function is not included.

Model No.	Screen Size	Power Supply	Power	Picture Pixels	Operating Temperature Range	Size (W × H × D mm)	Weight	Camera Inputs	Video Input	Audio Input	On-screen Distance Marker	Accessory
CJ7300G	7"	DC12V/24V	900mA	800 × 3 (RBG) × 480	-10° to + 60°C	174 × 125 × 25	Approx. 480g	4	1 (RCA)	1 (Mono/RCA)	Yes	Mouting Bracket, Monitor Cable

CLARION LCD COLOUR MONITORS

CJ981E

6.5” Widescreen Colour LCD Monitor

(Compatible with both DC12V and 24V)

- Automatic/manual dimmer function
- On-screen distance marker
- Built-in IRIS function (backlight compensation function)
- Color, brightness, and contrast control
- Auxiliary video input terminal
- Automatic video switching with reverse gear and turn signal inputs
- Seven language display selection
- Integrated timer switches off power to the monitor at a predetermined time
- Camera selection, ZOOM, IRIS ON/OFF can be performed with the front buttons or via optional wired remote control (RCB174)

Note: An additional power box is necessary when using the CJ981E.

Model No.	Screen Size	Power Supply	Power Consumption	Picture Element Pixel	Operating	Size (W × H × D mm)	Weight	Camera Input	Video Input	Audio Input	On-screen Distance Marker	Accessory
CJ981E	6.5"	DC12V/24V (requires power box)	Less than 2A (with EA1246A)	234 × 480	-20° to + 60°C	194 × 116 × 28.3	Approx. 500g	3 (with EA1246A)	Yes (requires power box)	No	Yes	Mouting bracket

1.4X digital zoom function

Switch to magnified center area view with the touch of a button. The digital zoom delivers a detailed view when you need it for extra safety.

Iris function (back light compensation function)

The iris function corrects the camera’s exposure by making the dark sections lighter and therefore easier to see, without adversely affecting the already bright sections.

On-screen distance markers

On-screen markers are displayed at 1m, 3m, 5m, and 7m for reference to support proximity verification.

Rear camera with verification screen (1m)

Rear camera with verification screen (3m)

Rear camera with verification screen (7m)

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CLARION LCD COLOUR MONITORS

CJ5600E

5.6” Colour Digital LCD Monitor

(Compatible with both DC12V and 24V)

- Digital LCD panel that delivers high quality images
- Built-in camera power supply and two camera switcher
- LED back lighting
- True/mirror image switching function
- Manual dimmer function
- Seven language display selection
- Color, brightness, and contrast controls
- Automatic camera switching with reverse gear and turn signal inputs

Model No.	Screen Size	Power Supply	Power Consumption	Picture Pixels	Operating Temperature Range	Size (W × H × D mm)	Weight	Camera Inputs	Video Input	Audio Input	On-screen Distance Marker	Accessory
CJ5600E	5.6"	DC12V/24V	400mA (12V, monitor set only)	640 × 3 (RGB) × 480	-10° to + 60°C	163 × 112 × 30	Approx. 300g	2	No	No	No	Mouting Bracket, Monitor Cable

CJ7100E

7” Widescreen Colour LCD Monitor

(Compatible with both DC12V and 24V)

Wireless remote control

- LED back lighting
- True/mirror image switching function
- Manual dimmer function
- Auxiliary (RCA) video and mono audio input
- Seven language display selection
- Color, brightness, and contrast controls
- Wireless remote control included
- Built-in camera power supply and two camera switcher
- Built-in speaker (works in combination with the CC3000E’s microphone)
- Automatic camera switching with reverse gear and turn signal inputs

Note: An additional power box is necessary when using the CJ981E.

Model No.	Screen Size	Power Supply	Power Consumption	Picture wwPixels	Operating Temperature Range	Size (W × H × D mm)	Weight	Camera Inputs	Video Input	Audio Input	On-screen Distance Marker	Accessory
CJ7100E	7"	DC12V/24V	450mA (12V, monitor set only)	480 × 3 (RGB) × 234	-10° to + 60°C	187 × 113.5 × 26.6	Approx. 450g	2	1 (RCA)	1 (mono/RCA)	No	Mouting Bracket, Monitor Cable

WATERPROOF CAMERA & MONITOR

ULTRA-WIDE ANGLE CAMERA

CC1601A

Ultra-Wide 160° Angle Waterproof Camera

- 40° more viewing angle than other camera systems
- Operating temperature range -30°C to +70°C
- Waterproof capability IP69K
- Compact, light body for easy installation
- Heavy duty connector to ensure water tightness
- Designed to withstand severe vibrations
- Aluminium die-cast housing ensures the durability of the camera body
- Electronic iris automatically adjusts to handle varying degrees of illumination

Model No.	Screen size (inches)	Picture Element Pixels	View Angle (horiz./vert.)	Operating Temperature Range	Size (W × H × D mm)	Vibration Rating (G-force)	Camera Inputs	Waterproof Capability	On-screen Distance Marker	Accessory
CC1601A	N/A	N/A	160/130	-30°C to + 70°C	46 x 37 x 34	6.8G	N/A	IP69K	N/A	Mounting bracket
CJ7500E	7"	800 x 3 (RBG) x	N/A	-10°C to + 60°C	190 x 29 x 141	4.4G	4	IP67	Yes	Heavy duty 'U" mounting bracket

WATERPROOF MONITOR

CJ7500E

Waterproof Digital Colour Quad Monitor

(Compatible with both DC12V and 24V)

- Operating temperature range -10°C to +60°C
- Digital 7” WVGA LCD panel delivers high picture quality
- Water resistant (IP67)
- Dimmer sensor is built-in
- True or Mirror camera image switching function
- Aluminium die-cast housing ensures the durability of the monitor body
- Four display views are available in various screen combinations
- Built-in power box allows direct connection of up to four cameras

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